



Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION (Use several sheets if necessary)	Docket Number (Optional) 1951-1-5	Application Number 10/028 568
	Applicant(s) Haishan Zeng, et al.	
	Filing Date December 19, 2001	Group Art Unit 3737

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MAY 27 2003

TECHNOLOGY CENTER RSTUJ

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
DLR	6,083,158	7/4/2000	Bearman, Gregory H., et al.	600	323	9/1/1998
	5,982,493	11/9/1999	Lehnen, David Charles, et al.	356	375	6/2/1998
	5,900,942	5/4/1999	Spiering, Bruce A.	356	400	9/26/1997
	5,827,190	10/27/1998	Palcic, Branko, et al.	600	476	8/19/1996
	5,749,830	5/12/1998	Kaneko, Mamoru, et al.	600	160	10/27/1994
	5,255,087	10/19/2003	Nakamura, Kazunari, et al.	358	98	12/27/1991
	4,786,813	11/22/1988	Svanberg, Sune, et al.	250	461.1	10/22/1985
DLR	4,768,513	9/6/1988	Suzuki, Susumu	128	634	3/30/1987
	4,556,057	12/3/1985	Hiruma, Teruo, et al.	128	303.1	3/11/1983

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
DLR	EP 0385608	9/5/1990	Europe	A61B	5/00		
	GB 2254417	10/7/1992	Great Britain	G01N	21/64		
	JP 10201707	8/4/1998	Japan	A61B	1/04	X (Abstract)	
	WO 99/53832	10/28/1999	PCT	A61B	5/00		
	DE 19842153 A1	3/16/2000	Germany	G02B	21/00		
DLR	EP1058101 A2	12/6/2000	Europe	G01J	3/36	X (Abstract)	

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

International Search Report, PCT/CA01/01824, February 28, 2003.	
EXAMINER 	DATE CONSIDERED 4-28-2004
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.	

Form PTO-1449  INFORMATION DISCLOSURE CITATION IN AN APPLICATION  (Use several sheets if necessary)		Docket Number (Optional) 1951-1-5		Application Number 10/028,568  <div style="text-align: center; font-size: 1.5em; font-weight: bold;">RECEIVED</div> <div style="text-align: center; font-size: 1.2em;">MAY 20 2002</div> <div style="text-align: right; font-weight: bold;">TECHNOLOGY CENTER 3700</div>			
<div style="border: 1px solid black; border-radius: 50%; padding: 10px; display: inline-block;">             MAY 06 2002              U.S. PATENT &amp; TRADEMARK OFFICE           </div>		Applicant(s) Haishan Zeng et al.		Filing Date December 19, 2001			
		Group Art Unit					
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
DLR	4,556,057	12/3/1985	Hiruma et al.	128	303.1		
	4,782,819	11/8/1988	Adair	128	6		
	4,786,813	11/22/1988	Svanberg et al.	250	461.1		
	4,930,516	6/5/1990	Alfano et al.	128	665		
	5,042,494	8/27/1991	Alfano	128	665		
	5,092,331	3/3/1992	Nakamura et al.	128	634		
	5,131,398	7/21/1992	Alfano et al.	128	665		
	5,293,872	3/15/1994	Alfano et al.	128	664		
	5,348,018	9/20/1994	Alfano et al.	128	665		
	5,413,108	5/9/1995	Alfano	128	665		
FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
DLR	AU2474899A1	8/9/1999	Australia (Bibliographic data)	A61B	5/00	X	
	DE19646176A1	5/15/1997	Germany (Bibliographic data)	A61B	1/06	X	
	DE19819516A1	11/12/1998	Germany (Bibliographic data)	A61B	6/00	X	
DLR	JP10014857A2	1/20/1998	Japan (Abstract only)	A61B	1/00	X	
	JP10014869A2	1/20/1998	Japan (Abstract only)	A61B	1/06	X	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
DLR	Jianan Qu, Calum MacAulay, Stephen Lam, Branko Palcic, Haishan Zeng, "Fluorescence in normal and carcinoma bronchial tissue", SPIE 2134A, 236-246 (1994).						
DLR	Jianan Qu, Calum MacAulay, Stephen Lam and Branko Palcic. "Laser-induced Fluorescence Spectroscopy at Endoscopy" SPIE 2133, 162-169 (1994).						
EXAMINER <span style="font-size: 1.5em;">all R</span>			DATE CONSIDERED <span style="font-size: 1.5em;">4-28-2007</span>				
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.							

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<div style="border: 1px solid black; border-radius: 50%; padding: 10px; display: inline-block; text-align: center;">             O.T.P.E.              MAY 06 2002              PATENT &amp; TRADEMARK OFFICE           </div>		Applicant(s) Haishan Zeng et al.			
Filing Date December 19, 2001		Group Art Unit TECHNOLOGY CENTER R3700			

  

U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
P L R	5,507,287	4/16/1996	Palcic et al.	128	633	
	5,590,660	1/7/1997	MacAulay et al.	128	664	
	5,647,368	7/15/1997	Zeng et al.	128	665	
	5,675,378	10/7/1997	Takasugi et al.	348	65	
	5,701,903	12/30/1997	Sano et al.	128	665	
	5,749,830	5/12/1998	Kaneko et al.	600	160	
	5,769,792	6/23/1998	Palcic et al.	600	477	
	5,772,580	6/30/1998	Utsui et al.	600	160	
	5,827,190	10/27/1998	Palcic et al.	600	476	
	P L R	5,879,284	3/9/1999	Tsujita	600	109

  

FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
P L R	JP10024010A2	1/27/1998	Japan (Abstract only)	A61B	1/00	X	
	JP10057300A2	3/3/1998	Japan (Abstract only)	A61B	1/00	X	
	JP10127563A2	5/19/1998	Japan (Abstract only)	A61B	1/00	X	
	JP10151104A2	6/9/1998	Japan (Abstract only)	A61B	1/00	X	
	JP10165365A2	6/23/1998	Japan (Abstract only)	A61B	1/04	X	

  

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	
P L R	Stephen Lam, Calum MacAulay, Jean LeRiche, Norihiko Ikeda and Branko Palcic, "Fluorescence imaging of early lung cancer", SPIE 2324, 2-7 (1994).
P L R	C. MacAulay, S. Lam, J. Qu, C. Man, M. Harries and B. Palcic, "Optical properties of normal malignant tissues in the nasopharynx and larynx", SPIE 2395, 153-157 (1995).

  

EXAMINER <span style="font-size: 1.5em; vertical-align: middle;">[Signature]</span>	DATE CONSIDERED <span style="font-size: 1.5em; vertical-align: middle;">4-28-2004</span>
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Form PTO-1449  INFORMATION DISCLOSURE CITATION IN AN APPLICATION  (Use several sheets if necessary)  <div style="border: 1px solid black; border-radius: 50%; width: 100px; height: 100px; display: flex; align-items: center; justify-content: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-weight: bold;">PATENT AND TRADEMARK OFFICE</div> <div style="text-align: center;"> <div style="font-size: 2em; font-weight: bold;">O T P E</div> <div style="font-size: 0.8em;">(Use several sheets if necessary)</div> <div style="font-weight: bold; margin-top: 10px;">MAY 06 2002</div> </div> </div>		Docket Number (Optional) 1951-1-5  Application Number 10/028,568  <div style="text-align: center; font-size: 2em; font-weight: bold;">RECEIVED</div>	
Applicant(s) Haishan Zeng et al.		MAY 20 2002  TECHNOLOGY CENTER R3710	
Filing Date December 19, 2001		Group Art Unit	

  

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
DLK	5,891,016	4/6/1999	Utsui et al.	600	181		
	5,971,918	10/26/1999	Zanger	600	160		
	5,984,861	11/16/1999	Crowley	600	175		
	5,999,844	12/7/1999	Gombrich et al.	600	476		
	6,008,889	12/28/1999	Zeng et al.	356	73		
	6,021,344	2/1/2000	Lui et al.	600	476		
	6,028,622	2/22/2000	Suzuki	348	85		
	6,148,227	11/14/2000	Wagnieres et al.	600	476		
	6,161,035	12/12/2000	Furusawa	600	476		
	6,212,425	4/3/2001	Irion et al.	600	476		
FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
DLK	JP10201707A2	8/4/1998	Japan (Abstract only)	A61B	1/04	X	
	JP10225426A2	8/25/1998	Japan (Abstract only)	A61B	1/00	X	
	JP10295632A2	11/10/1998	Japan (Abstract only)	A61B	1/04	X	
	JP10328129A2	12/15/1998	Japan (Abstract only)	A61B	1/00	X	
	JP11113839A2	4/27/1999	Japan (Abstract only)	A61B	1/06	X	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
DLK	Jianan Qu, Calum MacAulay, Stephen Lam and Branko Palcic, "Mechanisms of ratio fluorescence imaging of diseased tissue," SPIE 2387, 71-79 (1995).						
DLK	Jianan Qu, Calum MacAulay, Stephen Lam and Branko Palcic, "Laser-induced fluorescence spectroscopy at endoscopy: tissue optics, Monte Carlo modeling, and in vivo measurements", Optical Engineering 34:11, 3334-3343 (1995).						
EXAMINER	[Signature]			DATE CONSIDERED 4-28-2004			

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Form PTO-1449  INFORMATION DISCLOSURE CITATION IN AN APPLICATION  <div style="border: 1px solid black; border-radius: 50%; width: 100px; height: 100px; display: flex; align-items: center; justify-content: center; margin: 0 auto;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg); font-size: 8px;">PATENT &amp; TRADEMARK OFFICE</div> <div style="text-align: center;"> <div style="font-size: 12px;">O I P E</div> <div style="font-size: 10px;">(Use several sheets if necessary)</div> <div style="font-size: 14px; font-weight: bold;">MAY 06 2002</div> </div> </div>		Docket Number (Optional) 1951-1-5  Application Number 10/028,568  <div style="text-align: right; font-size: 24px; font-weight: bold; opacity: 0.5;">RECEIVED</div>	
Applicant(s) Haishan Zeng et al.		MAY 20 2002  TECHNOLOGY CENTER R3700	
Filing Date December 19, 2001		Group Art Unit	

  

U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
DLR	6,214,033	4/10/2001	li et al.	607	89	

  

FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
DLR	JP11223726A2	8/17/1999	Japan (Abstract only)	G02B	5/28	X	
J	JP11244220A2	9/14/1999	Japan (Abstract only)	A61B	1/00	X	
J	JP1136629A2	5/29/1989	Japan (Abstract only)	A61B	5/00	X	
DLR	JP1136630A2	5/29/1989	Japan (Abstract only)	A61B	5/00	X	
DLR	JP2096109A2	4/6/1990	Japan (Abstract only)	G02B	23/26	X	

  

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	
DLR	S. Lam and A.E. Proffo, "Fluorescence Tumor Detection", Minimally Invasive Techniques in Thoracic Medicine and Surgery, ed. Martin R. Hetzel, Chapman & Hall, London, 179-191 (1995).
DLR	Stephen Lam and Heinrich D. Becker. "Future Diagnostic Procedures", Thoracic Endoscopy 6:2, 363-380 (1996).

  

EXAMINER <span style="font-family: cursive; font-size: 1.2em;">[Signature]</span>	DATE CONSIDERED <span style="font-family: cursive; font-size: 1.2em;">4.28.2002</span>
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Sheet 5 of 9

Form PTO-1449

**INFORMATION DISCLOSURE CITATION IN AN APPLICATION**

Docket Number (Optional)  
1951-1-5

Application Number  
10/028,568

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Applicant(s)  
Haishan Zeng et al.

MAY 20 2002

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Filing Date  
December 19, 2001

Group Art Unit

**U.S. PATENT DOCUMENTS**

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NAME

CLASS

SUBCLASS

FILING DATE  
IF  
APPROPRIATE

**FOREIGN PATENT DOCUMENTS**

DOCUMENT  
NUMBER

DATE

COUNTRY

CLASS

SUBCLASS

Translation

YES

NO

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

H. Zeng, A. Weiss, N. MacKinnon, R. Cline, C. MacAulay, "In vivo Fluorescence Spectroscopy of the Gastrointestinal Tract under Multiple Wavelength Excitation", SPIE 2926, 4-8 (1996).

Wolfgang Lohmann, Rainer M. Bohle, Thomas Dreyer, Sabine Haas, Heike Wallenfels, Konrad Schwemmlé, Wolf B. Schill, "Breast Cancer: In Vitro Measurements of Native Fluorescence", SPIE 2926, 9-11(1996).

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Sheet 6 of 7

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**U.S. PATENT DOCUMENTS**

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**FOREIGN PATENT DOCUMENTS**

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
PUR	JP7155285A2	6/20/1995	Japan (Abstract only)	A61B	1/00	X	
	JP7155290A2	6/20/1995	Japan (Abstract only)	A61B	1/04	X	
	JP7155291A2	6/20/1995	Japan (Abstract only)	A61B	1/04	X	
	JP7250812A2	10/3/1995	Japan (Abstract only)	A61B	1/04	X	
PCR	JP8000557A2	1/9/1996	Japan (Abstract only)	A61B	1/06	X	

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

DUA	Naser Awadh, Calum MacAulay and Stephen Lam, "Detection and Treatment of Superficial Lung Cancer by Using delta Aminolevulinic Acid: A Preliminary Report", J. Bronch. 4:1, 13-17 (1997).
PCR	Stephen Lam and Calum E. MacAulay, "Endoscopic Localization of Preneoplastic Lung Lesions", Clinical and Biological Basis of Lung Cancer Prevention, ed. Y. Martinet et al., Birkhauser Verlag Basel, Switzerland, 231-237 (1998).
EXAMINER	DATE CONSIDERED

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		Applicant(s) Haishan Zeng et al.		<div style="transform: rotate(-15deg); font-weight: bold; font-size: 1.2em;">RECEIVED</div> <div style="transform: rotate(-15deg); font-weight: bold; font-size: 1.2em;">MAY 20 2002</div> <div style="transform: rotate(-15deg); font-weight: bold; font-size: 1.2em;">TECHNOLOGY CENTER R3700</div>	
		Filing Date December 19, 2001			

  

U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

  

FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
DCA	JP09131305A2	5/20/1997	Japan (Abstract only)	A61B	1/04	X	
	WO 99/16344	08/04/1999	PCT	A61B	5/00		
	WO 99/37204	29/07/1999	PCT	A61B	5/00		
DCA	WO 99/39626	12/08/1999	PCT	A61B	5/00	Abstract	
	WO 00/21576	20/04/2000	PCT	A61K	49/00		

  

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	
DCA	Circon advertisement "Selected laparoscopic Products" <a href="http://www.circoncorp.com/products/lapr/p-lapr-selected.html">http://www.circoncorp.com/products/lapr/p-lapr-selected.html</a> July 5, 2001

  

EXAMINER <span style="font-size: 1.5em; font-family: cursive;">[Signature]</span>	DATE CONSIDERED <span style="font-size: 1.5em; font-family: cursive;">4-28-2004</span>
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